

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (currently amended): An information processing system with a portable electronic device ~~in which memory spaces of a memory unit in a portable electronic device can be allocated to be used~~ including means for processing information and a memory employed by a plurality of business organizations in common, said system comprising:

~~a management sector for generating a file registry information and access key information based on file key information and issuer key information possessed by the management sector, said file registry information including memory space specifying information for specifying a size of a memory space to be dedicated in said portable electronic device and said file key information, said file registry information being encrypted with the issuer key information, said file key information being assigned to each of the plurality of business organizations; and~~

an access apparatus possessed by each of said plurality of business organizations for accessing said portable electronic device, said access apparatus including means for executing an authentication between each business organization and said portable electronic device by using said access key information ~~received from the management sector~~, and means for transmitting the file registry information to said portable electronic device; and

a management sector including means for generating said file registry information and said access key information based on file key information and issuer key information processed by said management sector,

wherein said management sector is adapted to create said file registry information by securing memory space in the portable electronic device, said memory space including memory space specifying information, and

wherein said management sector is adapted to create said file key information for each of the business organizations by encrypting said memory space specifying information and said file

key information with said issuer key information, said file key information being assigned to each of the plurality business organizations.

Claim 2 (currently amended): An access apparatus for accessing a portable electronic device having an information processing means, said access apparatus being employed by and said portable electronic device being part of an information processing system in which memory spaces of a memory unit in said portable electronic device is employed ~~can be allocated to be used by a plurality of business organizations~~, said access apparatus comprising:

means for executing an authentication between each business organization and the portable electronic device by using access key information; and

means for transmitting file registry information to the portable electronic device,

~~access key information created based on said file key information and issuer key information possessed by a predetermined management sector, said file key information assigned to each of said plurality of business organization;~~

wherein said file registry information and said access key information are generated by said a management sector based on file key information and issuer key information processed by said management sector, and

wherein said file registry information is created by adding memory space specifying information for specifying a size of a memory space to be secured in the portable electronic device, and said file key information includes encrypted information created by encrypting said memory space specifying information and said file key information with said issuer key information, said file key information being accessed by each of the plurality business of organizations,~~and said file registry information being encrypted with the issuer key information; means for executing an authentication between each business organization and said portable electronic device by using said access key information, the authentication being required for enabling an access to said portable electronic device; and~~

~~means for transmitting the file registry information to said portable electronic device.~~

Claim 3 (canceled)

Claim 4 (canceled)

Claim 5 (currently amended): ~~The An~~ access apparatus according to Claim ~~2~~ 1, wherein said transmitting means is adapted to transmit ~~transmits~~ issuer key change information to said portable electronic device for updating said first issuer key information stored held in said portable electronic device, said issuer key change information being created by encrypting ~~second~~ issuer key information, which is to be newly recorded in said portable electronic device, with said first issuer key information.

Claim 6 (currently amended): ~~The An~~ access apparatus according to Claim 5, wherein said access apparatus acquires, ~~together with~~ said issuer key change information, and the corresponding access key information from said management sector.

Claim 7 (currently amended): A portable electronic device including a memory unit which is employed by a plurality of business organizations ~~in common~~, said portable electronic device comprising:

a memory ~~unit~~ having memory space spaces allocated to said plurality of business organizations, said memory storing file key information specific to each of said plurality of business organizations and ~~first-issuer key information possessed by a management sector; and~~

means for processing information transmitted from an access apparatus possessed by each of said plurality of business organizations for accessing said portable electronic device, said information comprising file registry information and access key information,

wherein said file registry information and said access key information are generated by a management sector, said file registry information being created by adding memory space specifying information for specifying a size of a memory space to be secured in the portable electronic device and said file key information created by encrypting said memory space specifying information and said file key information with said issuer key information, said file key information being assigned to each of the plurality business of organizations, and said processing means adapted to restore said memory space specifying information and said file key information from the received file registry information.

~~with said file key information and said first issuer key information, said information comprising file registry information generated by the management sector, said file registry information including memory space specifying information for specifying a size of a memory space to be dedicated in said portable electronic device and said file key information, and being encrypted with the first issuer key information; and; and~~

~~means for allowing the access apparatus to access the memory space corresponding to the file key information according to a result obtained by the processing means.~~

Claim 8 (currently amended): The A-portable electronic device according to Claim 7, wherein said portable electronic device receives, from said access apparatus, file registry information that is created by encrypting memory space specifying information for specifying at least a size of the memory space to be secured in said portable electronic device and said file key information with second specific key information possessed by said management sector;

restores said memory space specifying information and said file key information from the received file registry information; and

allocates the memory space in accordance with said memory space specifying information while recording said file key information in association with the allocated memory space.

Claim 9 (currently amended): The A-portable electronic device according to Claim 7, wherein said second key information is said first issuer key information, and said file registry information is created by adding said memory space specifying information and said file key information to encrypted information that is created by encrypting said memory space specifying information and said file key information with said first issuer key information.

Claim 10 (currently amended): The A-portable electronic device according to Claim 7, wherein said portable electronic device is adapted to receive issuer key change information, for updating said first-issuer key information stored held in said memory portable electronic device, ~~said portable electronic device receives encrypted issuer key change information from said access apparatus, said encrypted issuer key change information being created by encrypting~~

~~second-issuer key information, which is to be newly recorded in said portable electronic device, with said first-issuer key information, ; said processing means adapted to restore, from -restores~~
~~said received second-issuer key change information, the by decrypting the received-issuer key~~
~~change-information which is to be newly recorded in the portable electronic device based on said~~
~~issuer key information stored in said memory with said first-issuer key information; and updates~~
~~said first-issuer key information by said second-issuer key information.~~

Claim 11 (currently amended): The A-portable electronic device according to Claim 7,
wherein said portable electronic device is in the form of a card.

Claim 12 (currently amended): The A-portable electronic device according to
Claim 7, wherein said portable electronic device is a portable terminal.

Claim 13 (currently amended): The A-portable electronic device according to Claim 12,
wherein said portable terminal is a cellular phone.

Claim 14 (currently amended): A method of using a memory space allocated in a
memory ~~unit that is~~ provided in a portable electronic device to be employed by a plurality of
business organizations ~~in common~~, said method comprising the steps of:

transmitting file registry information to said portable electronic device; and
authenticating the portable electronic device by using a first-access key information,
wherein said file registry information and said access key information are generated by a
management sector based on file key information and issuer key information processed by said
management sector, said file registry information is created by adding memory space specifying
information for specifying a size of a memory space to be secured to the portable electronic
device and said file key information created by encrypting said memory space specifying
information and said file key information with said issuer key information, said file key
information being assigned to each of the plurality business of organizations.

~~-generated by file key information assigned to each of the plurality of business~~
~~organizations and fist issuer key information generated by a management sector;~~

~~created by a management sector;~~

~~allocating a memory space to separate area in the memory by decrypting a file registry information to generate memory space specifying information for specifying to be dedicated in the memory space and the file key information ; and~~

~~accessing the allocated area corresponding to the file key information by using the first access key information.~~

Claim 15 (currently amended): The A-method of using a memory space according to Claim 14, further including a step for updating the first issuer key information stored in the portable electronic device by transmitting issuer key change information generated by encrypting second-issuer key information, which is to be newly recorded in the portable electronic device, with the first said issuer key information.

Claim 16 (canceled)

Claim 17 (currently amended): The A-method of using a memory space according to Claim 15, further comprising a step of sending second access key information corresponding to the second- updated issuer key information updated from the first issuer key information.